

LISTING OF THE CLAIMS

The following is a complete listing of the claims, which replaces all previous versions and listings of the claims.

1. (previously presented) A controller for a machine, comprising:
a machine mountable base comprising a motor protection device housed in the base; and
a modular control unit replaceably mountable to the machine mountable base, wherein the modular control unit comprises control circuitry configured to control the machine.
2. (original) The controller of claim 1, wherein the motor protection device comprises a short-circuit protective device.
3. (original) The controller of claim 2, wherein the short-circuit protective device comprises an instantaneous trip.
4. (original) The controller of claim 2, wherein the short-circuit protective device comprises a magnetic circuit breaker.
5. (original) The controller of claim 1, wherein the motor protection device comprises a disconnect device.
6. (original) The controller of claim 5, wherein the disconnect device comprises a local lockout.
7. (original) The controller of claim 1, wherein the modular control unit comprises an overload protection device and a contactor.

8. (original) The controller of claim 1, wherein the modular control unit comprises a programmable electronic overload.

9. (original) The controller of claim 1, wherein the modular control unit comprises an electromagnetic contactor.

10. (original) The controller of claim 1, wherein the modular control unit comprises a soft start machine controller.

11. (original) The controller of claim 1, wherein the modular control unit comprises a variable frequency machine drive.

12. (original) The controller of claim 1, wherein the modular control unit comprises a motor connection terminal.

13. (original) The controller of claim 1, wherein the machine mountable base comprises a network terminal.

14. (original) The controller of claim 1, wherein the machine mountable base comprises at least one sensor terminal.

15. (original) The controller of claim 1, wherein the machine mountable base comprises at least one actuator terminal.

16. (previously presented) A motor controller, comprising:
a motor mountable base comprising a short-circuit tripping disconnect; and
a replaceable control unit removably coupled to the motor mountable base,
wherein the replaceable control unit comprises control circuitry configured to control a motor.

17. (original) The motor controller of claim 16, wherein the short-circuit tripping disconnect comprises a magnetically tripping disconnect.

18. (original) The motor controller of claim 16, wherein the short-circuit tripping disconnect comprises a disconnect lockout.

19. (original) The motor controller of claim 16, wherein the motor mountable base comprises at least one communication terminal.

20. (original) The motor controller of claim 19, wherein the at least one communication terminal comprises a machine network terminal adapter to facilitate networking of a plurality of machine components.

21. (original) The motor controller of claim 16, wherein the replaceable control unit comprises an adjustable overload and a contactor.

22. (original) The motor controller of claim 16, wherein the replaceable control unit comprises a soft start motor controller.

23. (original) The motor controller of claim 16, wherein the replaceable control unit comprises a variable frequency motor drive.

24. (original) The motor controller of claim 16, wherein the replaceable control unit comprises at least one monitoring device.

25. (original) The motor controller of claim 16, wherein the replaceable control unit comprises at least one diagnostic device.

26. (original) The motor controller of claim 16, wherein the replaceable control unit comprises at least one manual control mechanism.

27. (previously presented) A controller for a machine system, comprising:
a plurality of different modular control units replaceably mountable to an on-machine motor protection base, wherein the modular control unit comprises at least one motor control device operable with at least one motor protection device of the on-machine motor protection base, and wherein the modular control units comprise different types of control circuitry configured to enable different controls of at least one machine in the machine system.

28. (original) The controller of claim 27, comprising the on-machine motor protection base.

29. (previously presented) The controller of claim 27, wherein the plurality of modular control units comprises a soft start motor controller, a variable frequency motor drive, an adjustable overload protection device, or a combination thereof.

30. (original) The controller of claim 27, wherein the modular control unit comprises a machine network terminal adapter to facilitate networking of a plurality of components of the machine system.

31. (previously presented) A controller for a machine system, comprising:
an on-machine base comprising a machine protection device; and
a control unit comprising control circuitry configured to control at least one machine in the machine system, wherein the control unit is selectable from a plurality of different types of control units having different types of control circuitry, the control unit is replaceably mountable to the on-machine base, and the on-machine base and the control unit are cooperative to provide desired on-machine controllability.

32. (original) The controller of claim 31, wherein the machine protection device comprises a magnetically tripping disconnect.

33. (previously presented) The controller of claim 31, wherein the control unit is selected from a group consisting of a soft start machine controller, a variable frequency machine drive, and an overload protection device.

34. (previously presented) A controller for a system of distributed machines, comprising:

- a machine mountable base, comprising:

- a short-circuit protective device; and

- a disconnect device; and

- a modular control unit replaceably mountable to the machine mountable base, wherein the modular control unit comprises control circuitry configured to control at least one machine in the system of distributed machines.

35-50. (cancelled)

51. (previously presented) A machine, comprising:

- a motor; and

- a motor controller mounted to the motor, comprising:

- a modular base comprising motor protection circuitry; and

- a modular motor control unit coupled to the modular base and comprising motor control circuitry cooperatively operable with the motor protection circuitry, wherein the modular motor control unit is selectively replaceable from a plurality of different types of motor control units.

52. (previously presented) The controller of claim 34, wherein the short-circuit protection device comprises an instantaneous trip.

53. (previously presented) The controller of claim 34, wherein the short-circuit protection device comprises a magnetic circuit breaker.

54. (previously presented) The controller of claim 34, comprising a motor mounted to the machine mountable base.

55. (previously presented) The controller of claim 54, comprising a machine system coupled to the motor.

56. (previously presented) The controller of claim 34, wherein the short-circuit protection device and the disconnect device are replaceably mountable to the machine mountable base.

57. (previously presented) The controller of claim 34, wherein the control circuitry comprises a variable frequency drive.

58. (previously presented) The controller of claim 34, wherein the control circuitry comprises a soft-start machine controller.

59. (previously presented) The controller of claim 34, wherein the control circuitry comprises an overload device and a contactor.

60. (previously presented) The controller of claim 34, wherein the modular control unit comprises a motor connection terminal.

61. (previously presented) The controller of claim 34, wherein the machine mountable base comprises a network terminal.

62. (previously presented) The controller of claim 34, wherein the machine mountable base comprises at least one sensor terminal.

63. (previously presented) The controller of claim 34, wherein the machine mountable base comprises at least one actuator terminal.

64. (previously presented) The controller of claim 1, wherein the modular control unit comprises an output connector configured to couple with the machine.

65. (previously presented) The controller of claim 1, wherein the modular control unit is selected from and interchangeable with a plurality of modular control units, each having different control circuitry.

66. (previously presented) The motor controller of claim 16, wherein the replaceable control unit comprises an output connector configured to couple with the motor.

67. (previously presented) The motor controller of claim 16, wherein the replaceable control unit is selected from and interchangeable with a plurality of replaceable control units, each having different control circuitry.

68. (previously presented) The controller of claim 27, wherein the modular control unit comprises an output connector configured to couple with the at least one machine via a cable.

69. (cancelled)

70. (previously presented) The controller of claim 31, wherein the control unit comprises an output connector configured to couple with the at least one machine via a cable.

71. (cancelled)

72. (previously presented) The controller of claim 34, wherein the modular control unit comprises an output connector configured to couple with the at least one machine via a cable.

73. (previously presented) The controller of claim 34, wherein the modular control unit is selected from and interchangeable with a plurality of modular control units, each having different control circuitry.

74. (previously presented) The machine of claim 51, wherein the modular motor control unit comprises an output connector configured to couple with the machine.

75. (cancelled)

76. (previously presented) The controller of claim 27, wherein the on-machine motor protection base comprises a short-circuit protective device housed therein.

77. (previously presented) The controller of claim 31, wherein the machine protection device comprises a short-circuit protective device housed in the on-machine base.

78. (previously presented) The machine of claim 51, wherein the motor protection circuitry comprises a short-circuit protective device housed in the modular base.